

WHAT IS CLAIMED IS:

- 1 1. A method of controlling data transmissions in a network between at least one
2 terminal and at least one server, comprising:
3 determining a current status of the at least one server;
4 determining a transmission rate of the at least one terminal based on the
5 current status of the at least one server; and
6 adjusting the transmissions from the at least one terminal to the at least one
7 server based on the transmission rate.
- 1 2. The method of claim 1, wherein the step of determining the current status of
2 the at least one server comprises receiving an overload notification from one of at least
3 one server and updating a local status indicator for the one of at least one server.
- 1 3. The method of claim 1, wherein the step of adjusting the transmission further
2 comprises modifying at least one local load weight to move a load from at least one
3 overloaded server to at least one non-overloaded server.
- 1 4. The method of claim 1, wherein the step of determining the current status
2 comprises determining an overload status of each server based on whether any server is
3 overloaded.
- 1 5. The method of claim 4, wherein the step of adjusting the transmission further
2 comprises adjusting a local load coefficient based on the overload status.
- 1 6. The method of claim 5, wherein the step of adjusting the local load
2 coefficient includes decreasing the local load coefficient if the overload status indicates
3 that all of the servers are overloaded.
- 1 7. The method of claim 5, wherein the step of adjusting the local load
2 coefficient comprises increasing the local load coefficient if the overload status indicates
3 that none of the servers are overloaded.
- 1 8. The method of claim 1, wherein the step of adjusting the transmission further
2 comprises modifying at least one local load weight if a portion of the at least one server is
3 overloaded.
- 1 9. An apparatus that controls data transmissions on a network between at least
2 one terminal and at least one server, comprising:

3 a memory;
4 a network interface; and
5 a controller, connected to the memory and the interface said controller:
6 1) determining a current status of the at least one server, 2) determining a transmission
7 rate of the at least one terminal based on the current status of at least one server, and
8 3) adjusting the transmissions of the at least one terminal to the at least one server based
9 on the transmission rate.

1 10. The apparatus of claim 9, wherein the controller determines the current status
2 of the at least one server by receiving an overload notification from one of at least one
3 server and updating a local status of the one of at least one server.

1 11. The apparatus of claim 9, wherein the controller adjusts the transmission
2 further comprises by modifying at least one local load weight to move a load from at least
3 one overloaded server to at least one non-overloaded server.

1 12. The apparatus of claim 9, wherein the controller determines the current status
2 comprises determining an overload status of each server based on whether any or all of
3 the servers are overloaded.

1 13. The apparatus of claim 12, wherein the controller adjusts the transmission by
2 adjusting a local load coefficient for each server based on the overload status.

1 14. The apparatus of claim 13, wherein the controller adjusts the local load
2 coefficient by decreasing the local load coefficient if the overload status indicates that all
3 of the servers are overloaded.

1 15. The apparatus of claim 14, wherein the controller adjusts the local load
2 coefficient by increasing the local load coefficient if the overload status indicates that
3 none of the servers are overloaded.

1 16. The apparatus of claim 9, wherein the controller adjusts the transmission by
2 modifying at least one local load weight if a portion of the at least one server is
3 overloaded.